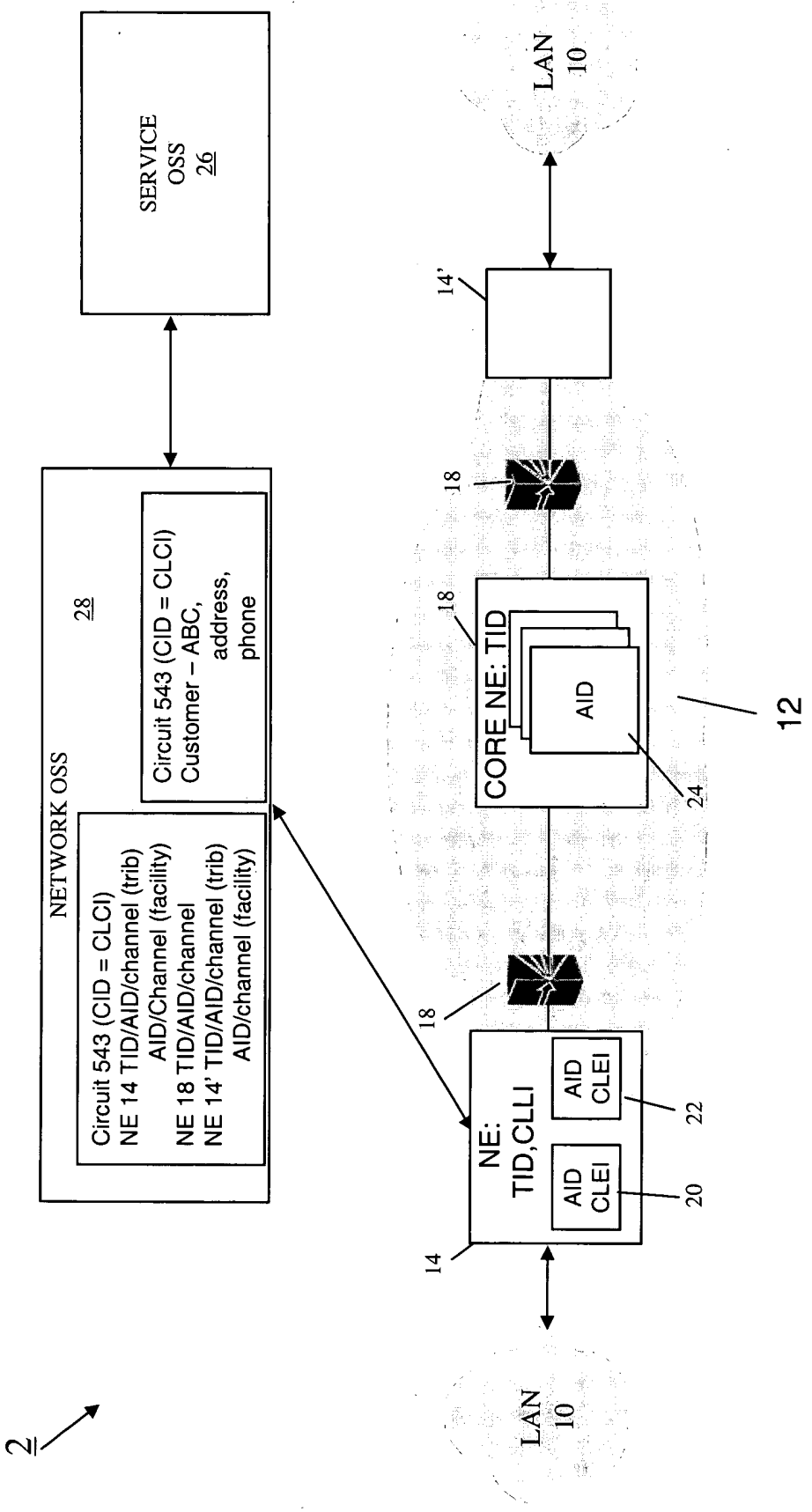

FIG. 1
(PRIOR ART)

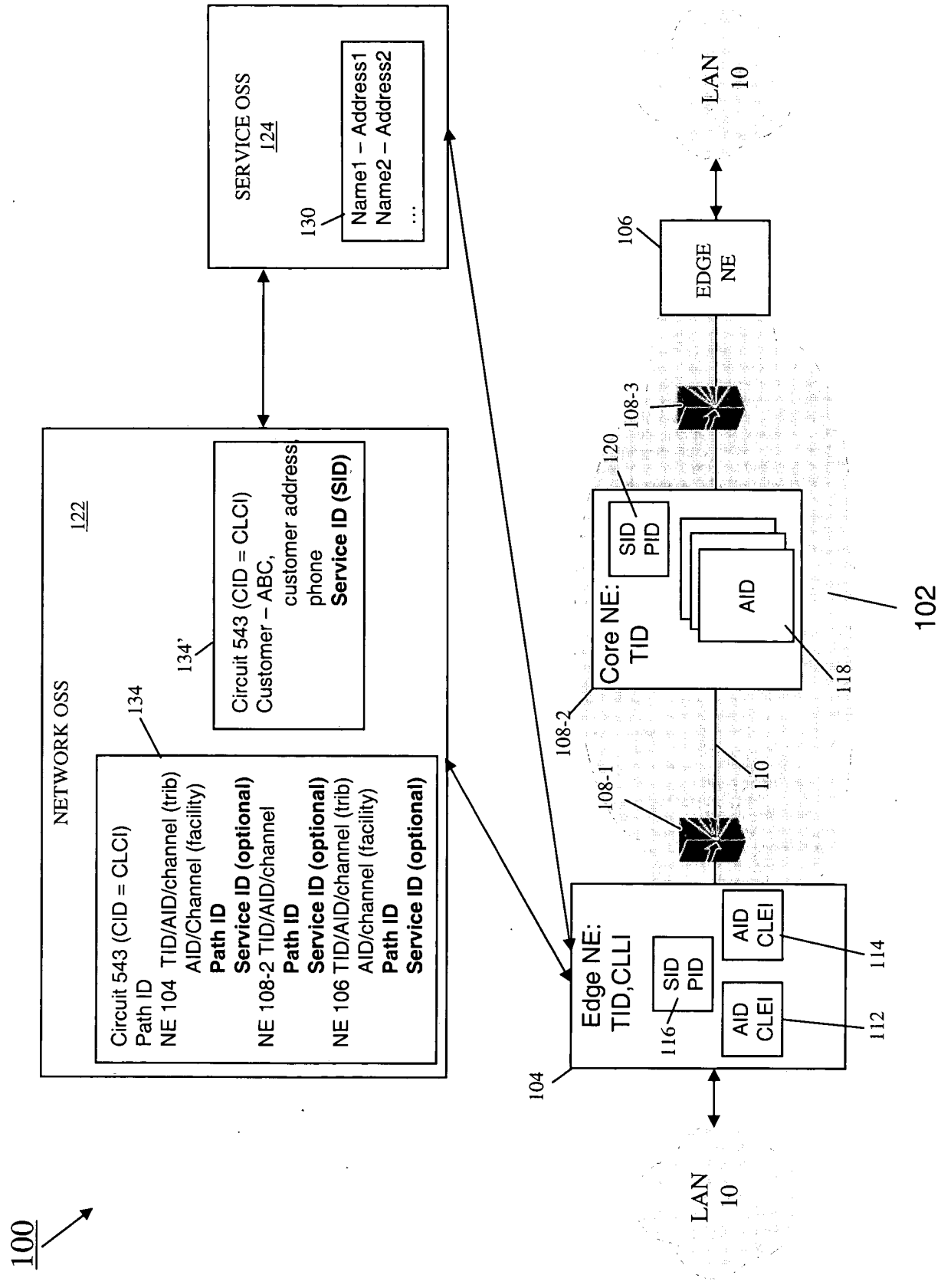
100
NETWORK OSS
122
Circuit 543 (CID = CLCI)
Path ID
NE 104 TID/AID/channel (trib)
AID/Channel (facility)
Path ID
Service ID (optional)
NE 108-2 TID/AID/channel
Path ID
Service ID (optional)
NE 106 TID/AID/channel (trib)
AID/channel (facility)
Path ID
Service ID (optional)
134
134'
Circuit 543 (CID = CLCI)
Customer – ABC,
customer address
phone
Service ID (SID)
SERVICE OSS
124
130
Name1 – Address1
Name2 – Address2
...
LAN
10
106
EDGE
NE
108-3
120
Core NE:
TID
SID
PID
AID
118
102
108-2
110
108-1
Edge NE:
TID,CLLI
SID
PID
AID
CLEI
AID
CLEI
116
112
114
104
LAN
10

FIG. 2A

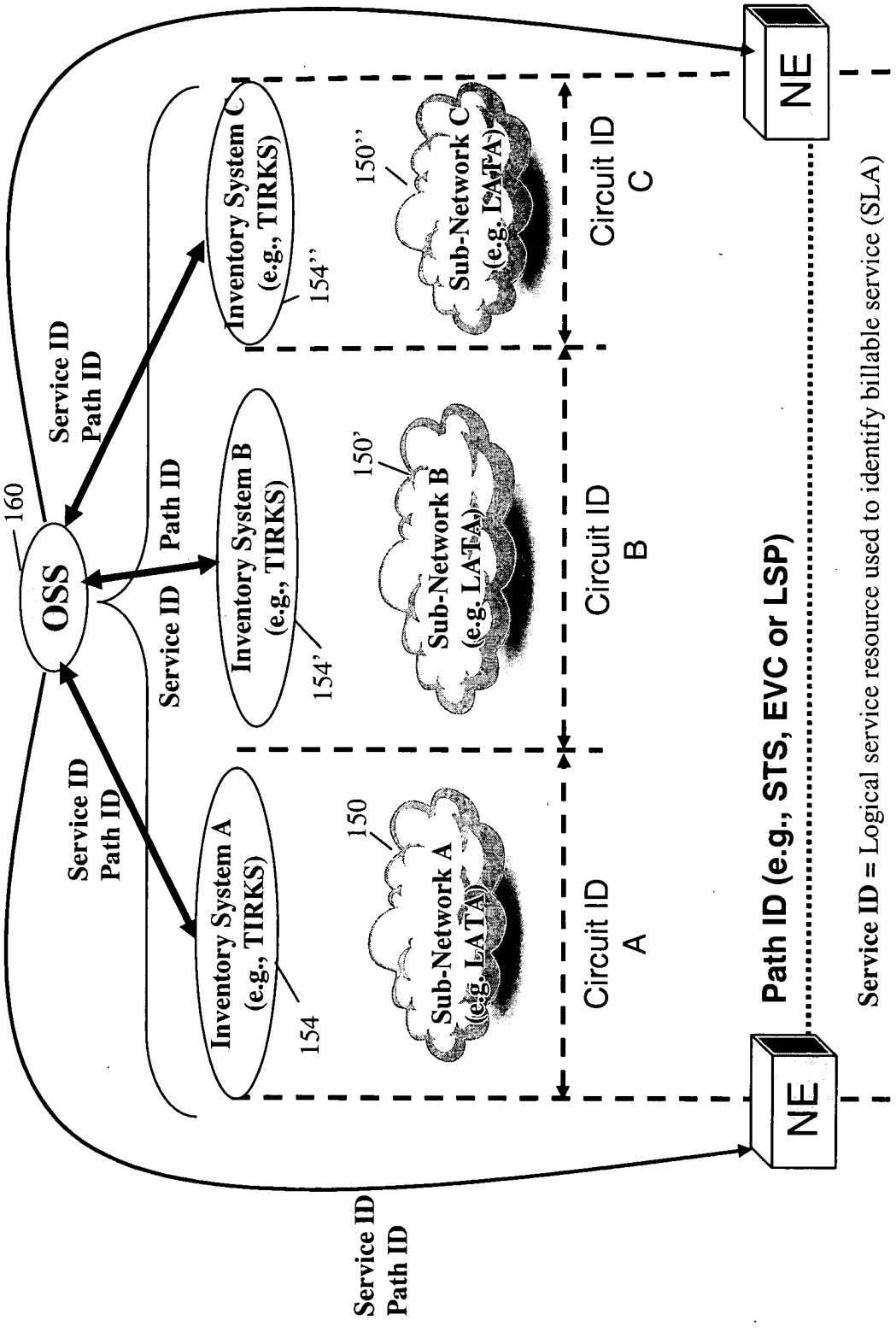
160
OSS
Service ID
Path ID
Service ID
Path ID
Service ID
Path ID
Service ID
Path ID
Inventory System A (e.g., TIRKS)
154
Inventory System B (e.g., TIRKS)
154'
Inventory System C (e.g., TIRKS)
154''
150
Sub-Network A (e.g. LATA)
150'
Sub-Network B (e.g. LATA)
150''
Sub-Network C (e.g. LATA)
Circuit ID A
Circuit ID B
Circuit ID C
NE
NE
Path ID (e.g., STS, EVC or LSP)
Service ID = Logical service resource used to identify billable service (SLA)
Path ID = Logical network resource used to identify logical path or paths.

FIG. 2B

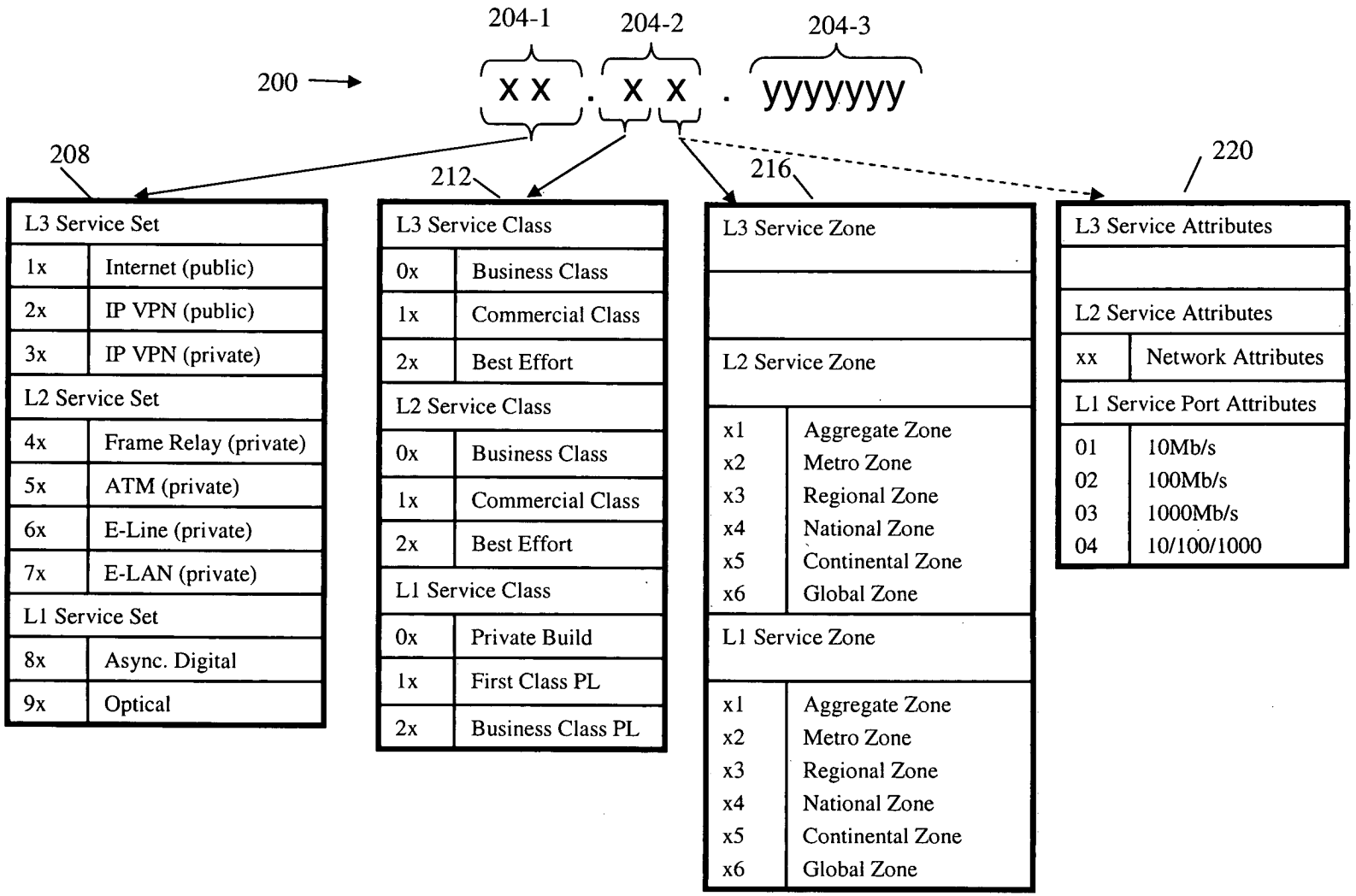

FIG. 3

Title: Structured Private Addressing and Naming for Management of Service and Network Resources
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Michael A. Rodriguez (508-303-2003)
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L1 Service Set -- Optical	
90	λ
91	OC-n Private Line
92	Storage Private Line
93	Ethernet Private Line
94	Private LAN

FIG. 4A

L2 Service Set – E-line (private)	
60	Internet Access
61	IP VPN Access
62	Frame Relay Access
63	Ethernet

FIG. 4B

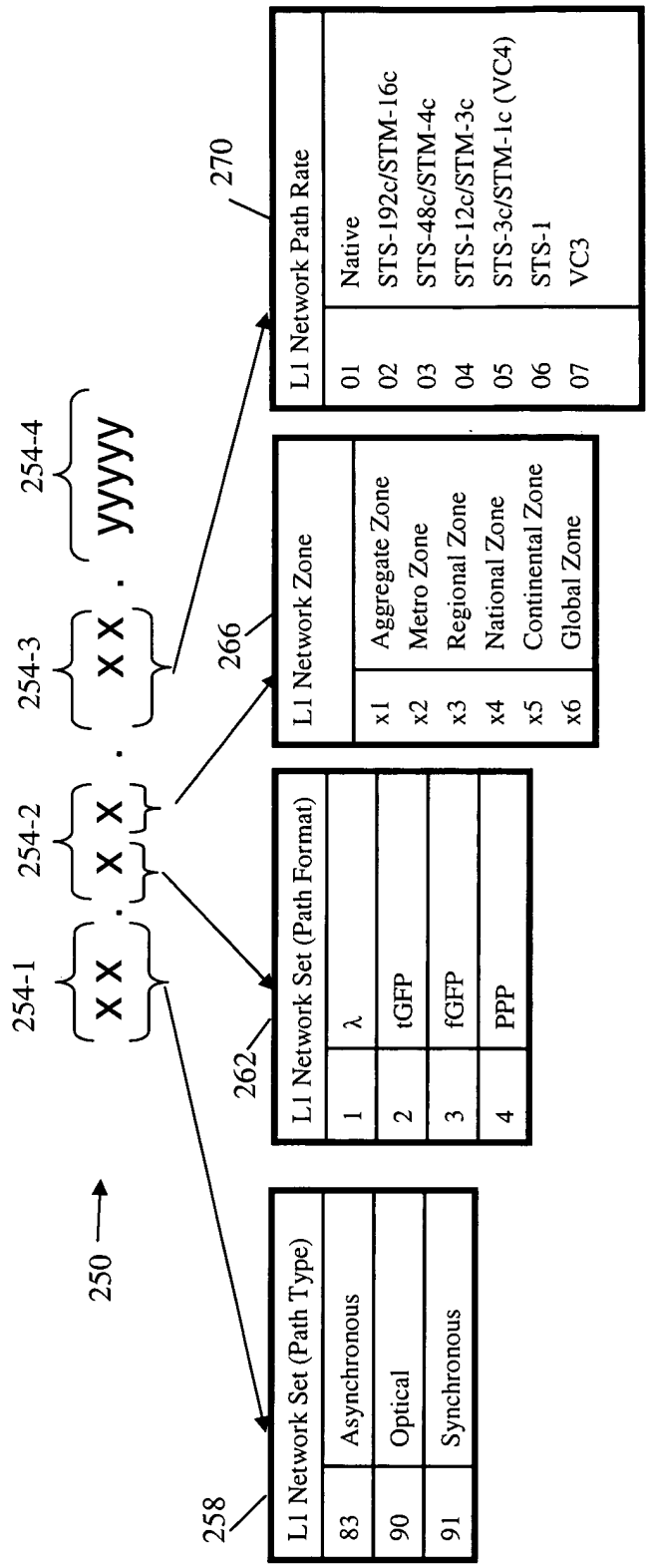
250
254-1
254-2
254-3
254-4
xx . xx . xx . yyyy
258
L1 Network Set (Path Type)
83 Asynchronous
90 Optical
91 Synchronous
262
L1 Network Set (Path Format)
1 λ
2 tGFP
3 fGFP
4 PPP
266
L1 Network Zone
x1 Aggregate Zone
x2 Metro Zone
x3 Regional Zone
x4 National Zone
x5 Continental Zone
x6 Global Zone
270
L1 Network Path Rate
01 Native
02 STS-192c/STM-16c
03 STS-48c/STM-4c
04 STS-12c/STM-3c
05 STS-3c/STM-1c (VC4)
06 STS-1
07 VC3

FIG. 5

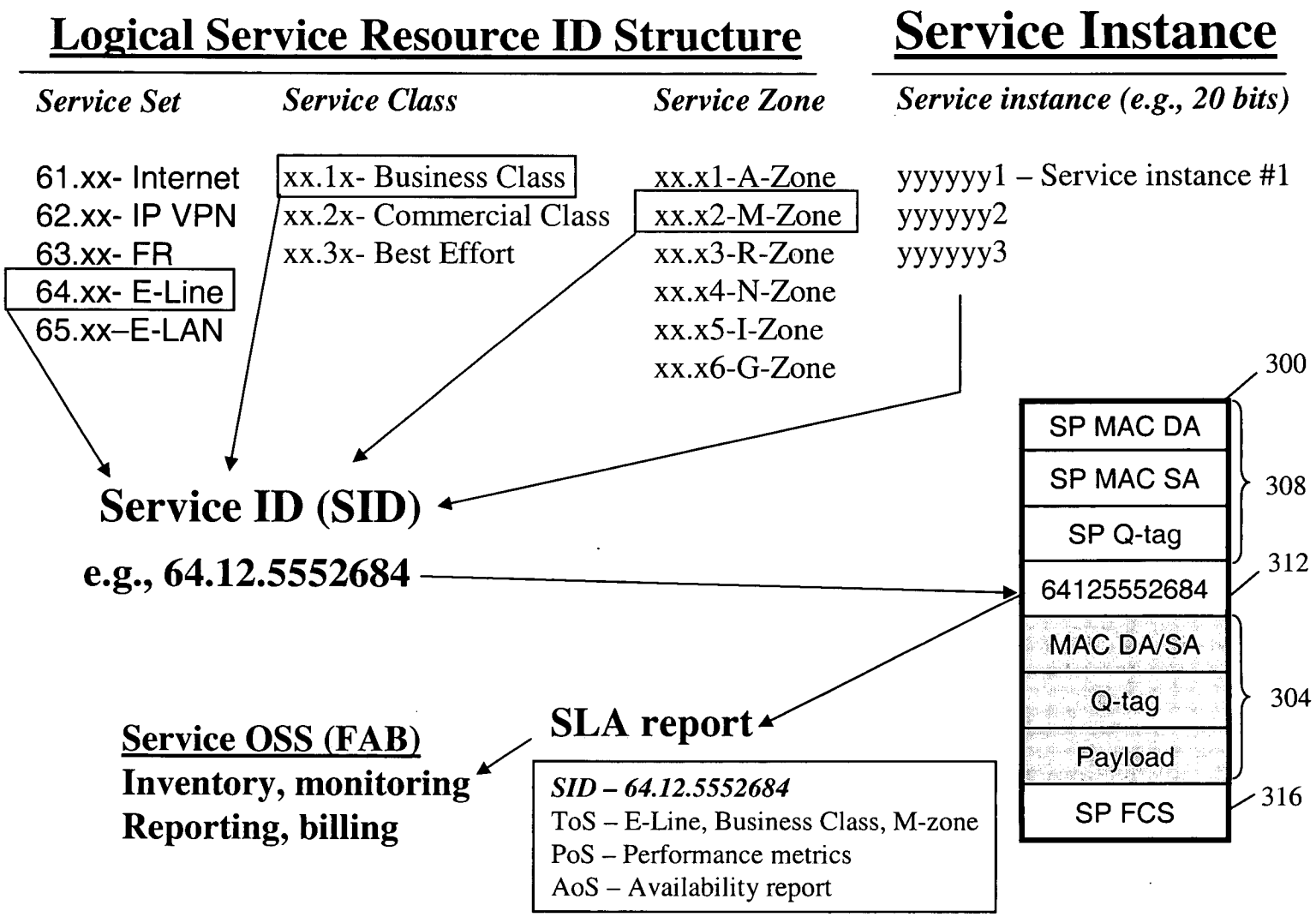

FIG. 6

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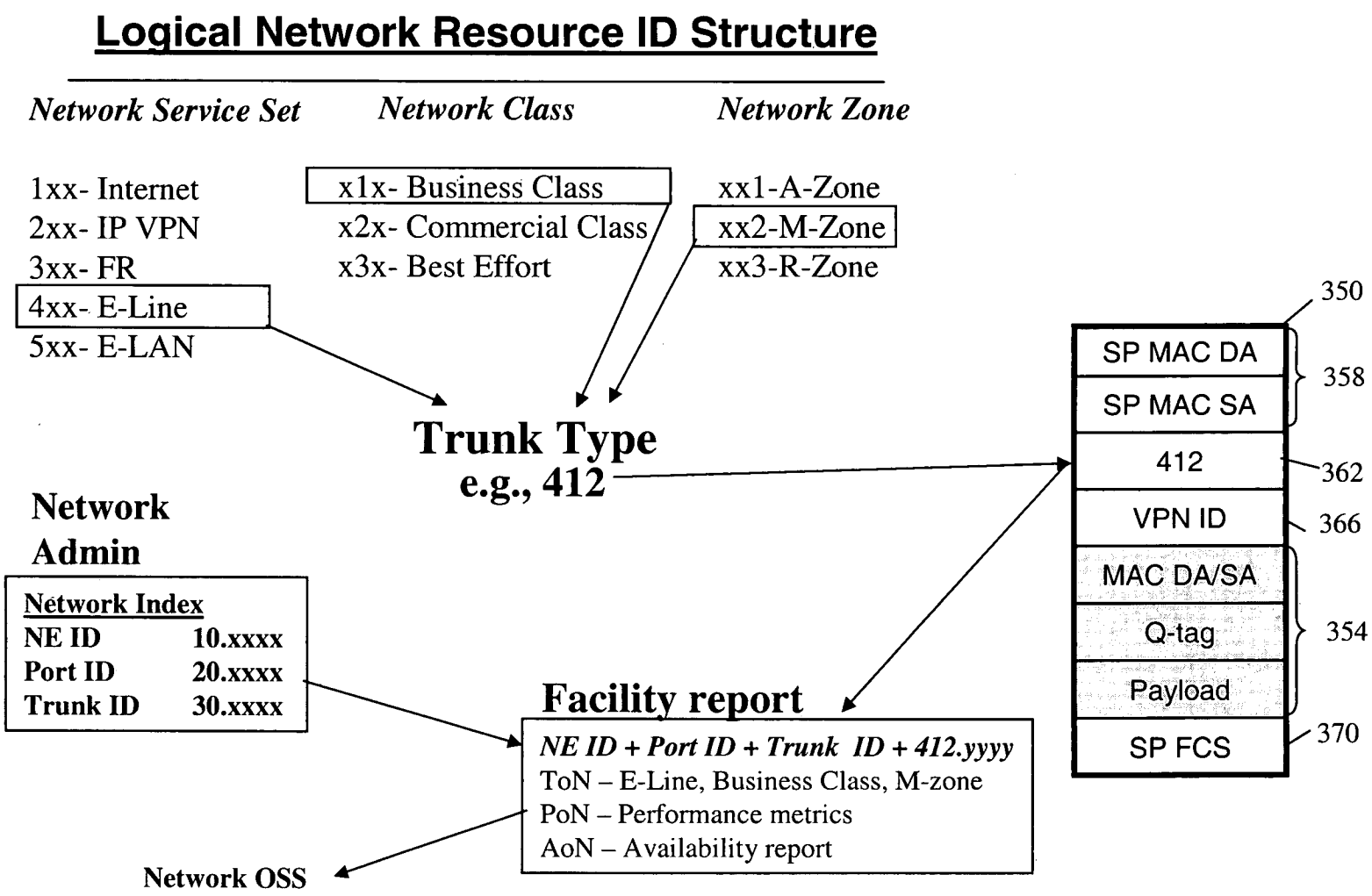

FIG. 7

Title: Structured Private Addressing and Naming for Management of Service and Network Resources
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